

ACIP Dengue Vaccine Workgroup

Wilbur Chen, MD, MSc

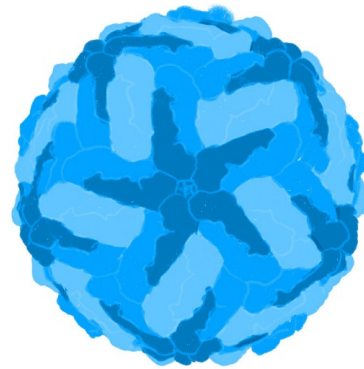
ACIP Member and Workgroup Chair

Advisory Committee on Immunization Practices

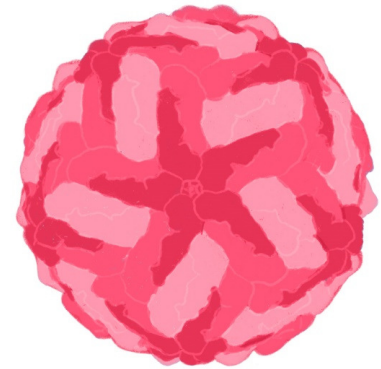
ACIP Meeting February 23, 2023

Dengue Virus

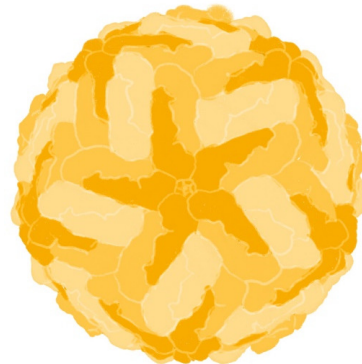
- DENV-1, 2, 3, 4
 - Lifelong DENV type-specific immunity
 - Short-term cross-immunity (~1–2 years)
 - A second dengue infection is the most important risk factor for severe dengue
- Dengue is the most common mosquito-borne virus globally



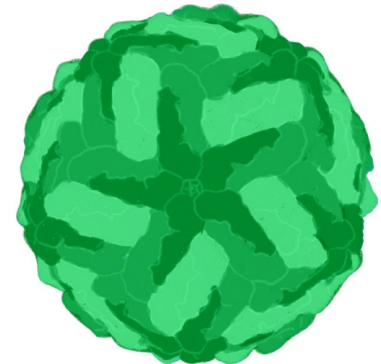
Dengue 1



Dengue 2



Dengue 3



Dengue 4

Dengvaxia™ and previous dengue infection

Clinical trials found **different outcomes after Dengvaxia™ vaccination** among children with and without previous dengue infection.

- Children **without previous dengue infection** had a **higher risk hospitalization and severe dengue** if they were vaccinated and then had a DENV infection.
- Children **with previous dengue infection** were **protected from hospitalization and severe dengue** if they were vaccinated with Dengvaxia™.

Dengvaxia™ ACIP Recommendation June 2021



Three doses of Dengvaxia are indicated for the prevention of dengue disease caused by dengue virus serotypes 1, 2, 3, and 4 in people 9–16 years old with:

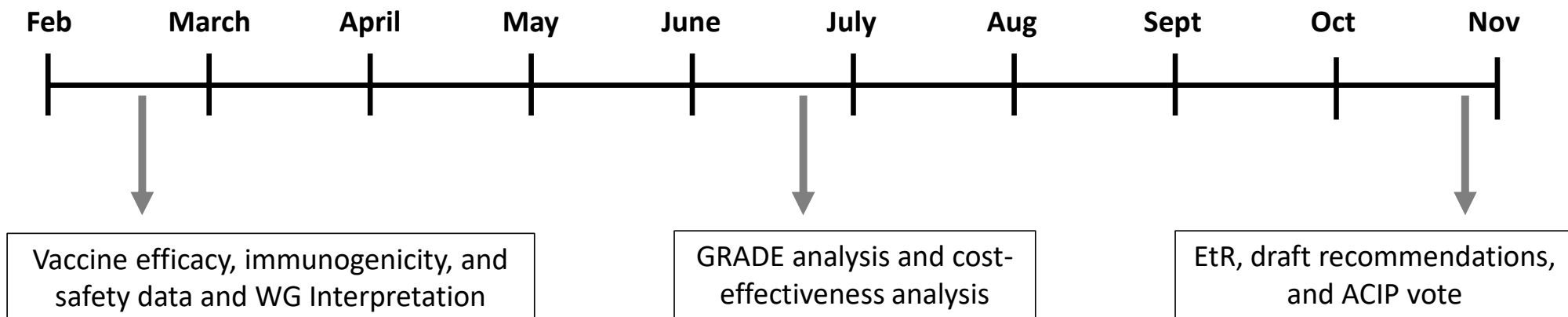
- laboratory confirmation of previous dengue virus infection

AND

- living in endemic areas.

Work group timeline 2023 for TAK003

Presentations to ACIP



Summary of work group plans and activities

- Review of efficacy, immunogenicity, and safety data (GRADE)
- Review of EtR domains and cost-effectiveness analysis
- Presentation of policy options and ACIP vote

Presentations today

TAK-003 Efficacy, Safety and Immunogenicity Data

Dr. Shibadas Biswal, Takeda

Work Group Summary and Interpretation of TAK-003 Efficacy, Safety, and Immunogenicity Data

Dr. Gabriela Paz-Bailey, CDC, NCEZID, DVBD

ACIP Dengue Vaccines Workgroup

ACIP Members

Wilbur Chen (Chair)

Kathy Poehling

Beth Bell

Veronica McNally

CDC Co-Lead

Gabriela Paz-Bailey

Laura Adams

Ex Officio Members

Kaitlyn Morabito (NIH)

Ralph LeBlanc (FDA)

Ihid Carneiro Leao (FDA)

Kirk Prutzman (FDA)

Srihari Seshadri (DOD)

Liaison Representatives

Elizabeth Barnett (AAP)

Rob Schechter (AIM)

Consultants

Edwin Asturias

Robert Atmar

Alan Barrett

Iris Cardona

Anna Durbin

Tony Marfin

Kristen Pierce

Anita Shet

CDC Contributors

Josh Wong

Mimi Eckert

Rachel Eidex

Alfonso Hernandez

Susan Hills

Terri Hyde

Mike McNeil

Jorge Munoz

Erin Staples

Cindy Weinbaum

Rita Helfand